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The Impact of AI-Driven Recommendation Systems on Consumer Behaviour and Decision Making: A Study of Personalization and Privacy Concerns

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Abstract: AI has entered the online market revolution and currently, AI-based recommendation engines are used extensively in online stores, streaming sites, and even social media as a means of providing a personal experience to the user as a way to offer online shops, streaming, and social media. The use of such systems utilizes algorithms that analyze customer data, tastes and patterns of trends in behavior to suggest the most appropriate products, services or content that would be likely to appeal to the users. The given research has a twofold impact on the consumer decision-making process due to the personalization of the system and the presence of more privacy concerns due to comprehensive data collection that is the thesis of the said research. The study will adopt a mixed method method, implying the analysis of 300 consumers and conducting secondary research on the basis of existing literature available, to explore the relationship between personalization and perceived satisfaction, trust and purchase intention and study the effects of the issue of privacy on user acceptance and purchase behavior. The conclusions presented are that tailored recommendations significantly help in consumer interest and effectiveness in decision-making, but more privacy threatens to trust and disclosure intentions. The findings demonstrate that businesses need to strike a balance between the principle of personalization and the principle of having a high level of data privacy in order to make the users more satisfied and also achieve the norms of ethics. The limitation of practical use is the use of self-report survey information and the possibility of regional bias in consumer response. Future studies can be conducted on how various cultures respond to cross-cultural differences, how clarifying AI enhances trust, and the long-term impacts of the recommendation systems on consumer decisions.

Keywords: - AI-driven recommendation systems, consumer behavior, personalization, privacy concerns, decision-making, digital marketing

INTRODUCTION

The development of Artificial Intelligence (AI) has transformed the consumer experience of online platforms and significantly impacted decision-making patterns, preferences, and engagement. Among other applications of AI, recommendation systems have emerged as one of the most prominent that may offer in-person information, goods and services [1]. These systems could make predictions on what a user will most likely be interested in by analyzing the consumer behavior, the past interaction, and the preference information. Individualization becomes a determination point to any business that needs to maintain a competitive edge, ensure improved customer satisfaction, and yield superior conversion rates.

The more extensive application of the AI-based recommendation algorithms can be seen in many spheres, beginning with an online shop such as Amazon, which suggests items depending on the already made purchases, and a streaming platform, like Netflix or Spotify, which suggests movies or songs depending on the habit of watching and listening. Social media like Facebook and TikTok have their recommendation algorithms that are designed to increase consumption, engagement and retention of the content [10]. Their great level of adoption shows the perceived usefulness of the systems in reaching efficient decisions through reducing the cognitive load and coming up with decisions that the user would tend to like.

However, personalization has major negatives and in particular, in the matter of information privacy. The success of using AI-based recommendation systems by individual relies greatly on collecting, storing, and processed personal and behavioural data, which leads to the question of how far the consumer is willing to share their information. The privacy concern can prove to be a loss of consumer trust on systems and select consumers who send or decline customized suggestions. The relevant clash between personalization and user privacy has been created by this paradox. The consumers tend to be placed in a privacy-personalization trade-off, whereby, higher personalization may result in both convenience and satisfaction, as well as to the emergence of fears of the risk of solitude of their data, and genuine malice-driven uses of personal information [12].

It is based on this tension that the proposed research will present an empirical rich insight into the effects of AI-oriented recommendation system on consumer behavior and decision-making. It examines the influence of personalization on user engagement, trust and purchase intention and simultaneously, it also addresses the influence that privacy matters have on the same albeit moderately. These are critical dynamics in businesses owing to their future purpose of informing the designing of recommendation systems that will guarantee an optimal user

satisfaction, in addition to meeting ethical practice of data and regulation provisions [13].

There are four objectives in this study. To start with, it seeks to test effectiveness of the personalized recommendations in terms of consumer engagement and the effectiveness of decisions. Second, it also analyzes the impact that the problem of privacy has on the user confidence and the willingness to act on the recommendations. Third, it investigates the associations between the personalization advantages and privacy threats with the view of finding the most effective methods of creating AI systems [8]. Finally, it also aims at providing businesses and policymakers with proximate information to balance personalization and privacy to create ethical and effective application of AI-driven recommendation systems.

It is also considered that the protracted repercussions of recommendation systems on the consumer behavior research and the digital marketing strategies implemented by the company in this study. It integrates the technological, behavioral, and ethical perspective and assists in coming up with a holistic vision on the motivation of user acceptance, engagement, and decision-making [11]. The research also bridges the gap in the literature, in which the people studied have analyzed the aspects of personalization and privacy separately, which offers a faint glimpse of the complex character of the AI-recommended systems.

Altogether, the paper sheds light on the notion that despite the idea that their recommendation systems regulated by AI can be regarded as a good opportunity in terms of user experience, interaction, and decision-making, the problem of privacy can be discussed as one of the significant restrictions [14]. Business must know that the accuracy of algorithms is not a guarantee of consumer confidence, the feeling of control over personal data and ethical use of it is the key to long-term acceptance and loyalty of users. These issues will be taken into consideration in this research, thereby coming up with good recommendation systems and socially responsible recommendation systems.

Novelty and Contribution

The present research is uncommon in that it adopts dualism in regards to determining the effects of AI-based recommendation systems on consumer behavior by examining how the aspect of personalization affects consumers on the one hand, and how the aspect of privacy would be affected on the other hand. This paper is a synthesis of both of these, despite the fact that previous scholars have mainly focused on one or the other side of the personalization benefits, or the downside of data information privacy; this presents an all-encompassing framework of consumer decision-making when it comes to AI-focused situations. This

article is new since it has a two-sided perspective wherein the influence of personalized recommendations on the level of engagement and commitment to buy is investigated as well as the influence of privacy concerns mediating the two variables.

This paper makes the following contributions:

- Integrated Research of Personalization and Privacy: The article satisfies a highly basic gap in the literature because of the fact that it looks at the interaction between the benefits of customized suggestions and the privacy questions in shaping demand. The two-pronged approach would offer a more feasible mode of comprehending the responses of people to the AI-driven machines.
- Observations of Decision-Making: The study could be used to provide some empirical evidence about the relationship among personalization and engagement, trust, and purchase intent through primary survey data of 300 consumers of mixed nature. It is also used in the determination of the dampening effect of the privacy problem, which could be implemented in practice by the organizations and the developers of platforms.
- Practical Advice to the Businesses: The paper reveals the means through which firms may strike a balance between the personalization and ethical data management, which can inform the design of AI systems to provide the most favorable user experience and minimize the risks of privacy loss. It has a direct impact on the marketing strategies, customer retention and user experience design.
- Future Research Framework: The research is conceptual and can be enhanced to attain cross-cultural differences, the role of explainable AI, and how the recommendation systems influence the behavior of the consumers over time. Further studies that will examine the dynamic nature of the AI-driven personalization can be based on the framework.
- Importance to Ethical AI Practices The research provides valuable insights into the application of privacy-aware personalization, which leads to the emerging issue of ethical usage of AI, responsible and ethical data gathering and ethical conduct in the setting of privacy laws and rules, such as GDPR and CCPA.

The paper constitutes an integrative approach to AI-based recommendation systems and this scientific work is a contribution to the further development of theoretical knowledge and practice. It notes the need of the vital importance to find the balance between the efficiency and the relevance of personalization and the privacy protection on one side, and eventually result into the development of the AI systems that are efficient and ethically accountable on the other.

RELATED WORKS:

Recommendation systems powered by AI have now become the foundation of the contemporary online platform, affecting consumer preferences in e-commerce, streaming, and social media space. Such systems make use of sophisticated algorithms such as collaborative filtering algorithms, content based filtering algorithms and hybrid algorithms to make a prediction about the interests of the user and recommend items that are likely to attract user interest. The studies on this topic have continually indicated that recommendation systems are capable of improving user satisfaction through the provision of quality and personalized content and hence minimize search costs and decision fatigue. Individualized suggestions enhance the effectiveness of making decisions and the consumers take a short time to select products, services or media suited to their tastes. Due to it, consumers will be more inclined to interact with suggestions, buy products, or spend more time on the site.

In 2025 A. Ojokohet *al.*, [3] introduced the quality of recommendation systems is highly determined by the quality of algorithms and precision of user information. Behavioral patterns analyzing systems can also be used, including click history, purchase history, and rate of interaction, and make those recommendations very relevant, leading to loyalty and trust. Furthermore, adaptive recommendation systems that constantly adapt to user feedback are more effective in terms of keeping the user interested in the long run. The personalization is dynamic so that recommendations are not outdated because of the changing preferences and consumption trends. Also, recommendation systems have proved to positively affect cross-selling possibilities and impulse buying, which is the key of growing business. Although these are the advantages, it poses serious privacy challenges since it relies on user information. Browsing habits, demographic data, and even location tracking are some of the sensitive information that consumers are more conscious of the fact that personalization involves the form of information gathering [7]. The perceived riskiness of the data collection process can affect the acceptance of AI-driven recommendations where certain users may restrict data sharing or even avoid the platforms. The privacy issues also influence the trust to the

system; once users become sure that their data is being misused or that it does not have sufficient protection, they will resort to less involvement. This leaves a business with a dilemma of striking a balance between the positive aspect of personalization and the moral and lawful issues of data protection.

In 2025 M. Reitano et.al. [15] suggested the conflict between personalization and privacy has resulted in studies on how to alleviate user concerns without losing the benefits of the recommendation systems. Openness to using data, the capacity to decide what data is provided, and effective communication about the way of creating recommendations has been found to be significant measures that can make people trust them. It is possible to achieve personalized experiences with the privacy of users intact as privacy-conscious recommendation systems (which use methods including, but not limited to data anonymization, differential privacy and secure multi-party computation) have shown. Such strategies are expected to decrease the trade-off between customization and privacy dangers so that the population is at ease using AI-driven apps.

Besides privacy concerns, recommendation systems are also researched in terms of their psychological and behavioral impact. Personalization has the potential to introduce a feeling of acknowledgment and customization, which enhances the feelings of emotional connection with the platform. When the consumer feels that there are systems that provide them with relevant suggestions, they view them as being smarter and useful, this affects their attitude towards a brand. On the other hand, excessive personalization or repetition of recommendations may cause fatigue or a feeling of being controlled and it is therefore important to have the number of recommendations as well as variety of suggestions to be maximized. Moreover, it has also been found out that the interface and design of recommendation systems are critical in user acceptance. Social media where you can see the logic behind the recommendations and where you can find options to be customized easily are likely to attract greater attention and confidence by consumers.

In 2025 Katsanakis et.al. [9] proposed the effects of the recommendation systems on decision making is also another critical research area. Recommendation systems help decrease cognitive load and increase the level of decision confidence by eliminating options and focusing on the ones that fit the preferences of the users. The consumers can make better and quicker decisions, and this enhances their level of satisfaction. However, the reliance upon the recommendations of the algorithms may also impose the limiting exposure to alternative options, which may influence the consumer free will and develop adherence to the recommending tendencies imposed by algorithms. It is this dual impact that suggests that there exists requirement to have structures that

render equilibrium between direction and preservation of consumer agency.

In total, the literature review demonstrates that the transformative influence of AI-based recommendation systems on the consumer behavior exists. Individualized suggestions can significantly enhance the level of engagement, satisfaction and the efficiency of making decisions, nevertheless, it must be implemented in a very sensitive manner by considering the issue of privacy and ethics. The other gap in the literature is that the literature does not contain literature sources that incorporate the studies that discuss the benefits of the concept of personalization and moderating effects of privacy on decision-making. Through exploring these dimensions together, this paper would like to contribute to the presentation of a holistic view of how AI-based recommendation systems impact consumer behavior with practical implications to the platform designers, marketers, and policymakers [6].

PROPOSED METHODOLOGY

The research study methodology was expected to investigate the impact of the AIs-based recommendation systems on the consumer behavior, particularly in personalization and privacy matters. Mixed-method approach was adopted so that the understanding of the research problem could be extensive. The research conducted to study the perception, the engagement, and decision making behavior of the consumers entailed quantitative data collection through surveys and secondary data analysis through industry reportages and literature. The research design was modeled so that it would best guarantee that both the benefits of personalization will be captured as well as the moderating effects of privacy concerns on consumer levels of accepting AI-induced recommendations.

The first process of the methodology was to develop a powerful online survey that will target consumers who actively consume digital platforms based on AI-based recommendation systems. The sample included subjects of different demographic factors age 18-55 years in order to cover a high range of behavioral patterns and privacy attitude. Questions included in the survey questionnaire estimated the perceived personalization, trust in the platform, involved with recommendation, purchase intention and the issue of privacy. Likert scale was used to measure the responses of five points, which enabled the statistical analysis of relationships between these variables to be done in a comprehensive manner. A variety of online distributions channels were used in order to distribute the survey in order to guarantee sufficient response rates and minimize sampling bias [4].

The second step was the preprocessing/validation of data. The survey responses were checked to ensure that they were

complete and consistent. All other unfinished or vague answers were taken out of the data to ensure the integrity of the data. The demographics and some basic tendencies in the responses of the participants were summarized by the descriptive statistics, whereas correlation analysis was made to examine the initial relationships between personalization, privacy concern, and the outcome of the decision-making process. This was necessary to make the regression and variance analyses, which would follow, yield good and sound results.

The third step was the analysis of the cross interaction between personalization and privacy issues. The effect of perceived personalization on the engagement and purchase intention was quantified with the help of regression models, whereas the privacy concerns were considered as a moderating variable. Literature and industry report secondary data were also included to confirm trends found in the primary data and to put context on the effectiveness of various recommendation algorithms and privacy-sensitive methods. This would be a blend of primary and secondary data and thus it guaranteed a sound analysis that can yield actionable data [5].

The fourth step involved assessing the efficiency of consumer decision making in as far as AI-based recommendations are concerned. Responses of the participants in terms of perceived ease of decision-making, satisfaction with suggestions and the probability of acting on the suggestions were evaluated in order to know how personalization improves thinking and decreases decision fatigue. The issues of privacy were also evaluated to determine whether it discouraged interest and trust, which could compensate the advantages of personalization.

Lastly, a flowchart was used to summarize all of the methodological steps, which is a clear visual representation of the research process. Flowchart shows how the design of the survey was turned into data analysis and interpretation, as it reveals how personalization and privacy issues became a part and parcel of the study design.

Through this figure 1, the step by step approach to conducting the study has been laid out and how the survey design, data collection, preprocessing, and analysis are organized to investigate the effects of personalization and privacy on consumer behavior.

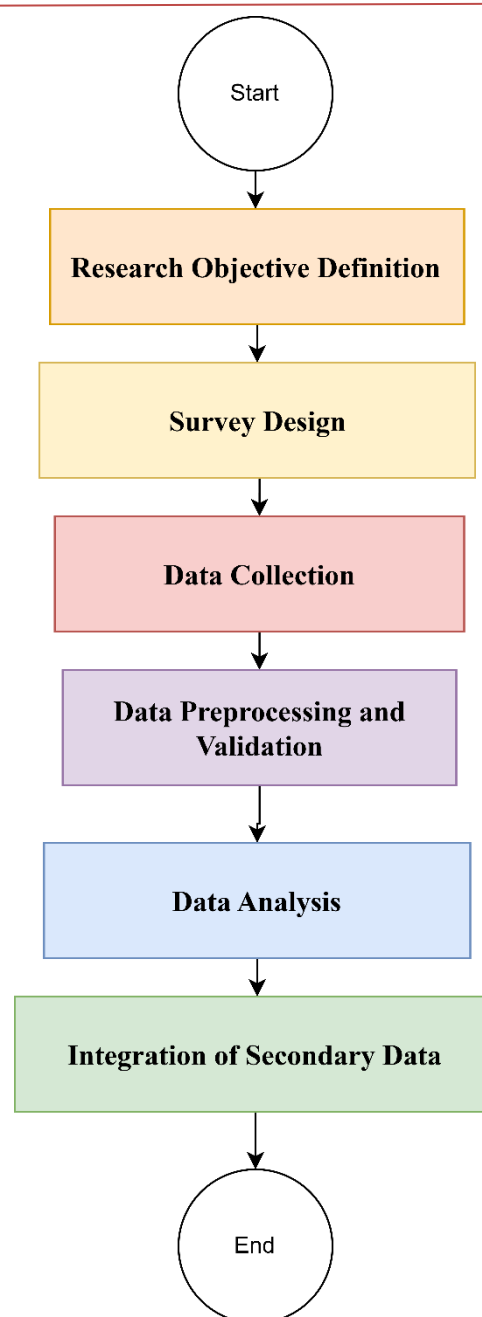


FIG. 1: THE FLOWCHART OF THE PROPOSED AI-RELATED RECOMMENDATION SYSTEM STUDY METHODOLOGY.

Such an approach guarantees an in-depth and effectively systematised approach to the insight into the effect of AI-driven recommendation systems. By merging the information that is obtained through the survey with the data that is collected secondarily, as well as by incorporating the personalization and privacy factors, the research can generate a detailed and credible image of consumer behavior under the conditions of AI mediation. The designed approach provides the opportunity to replicate in the future research, as well as the flexibility to adapt to other platforms, cultures, or AI recommendation models.

RESULT&DISCUSSIONS:

The findings of the present paper demonstrate the high level of influence of the AI-driven recommendation systems on consumer behavior, and the dual impact of personalization and privacy issues. A survey analysis helps understand that individualized recommendations lead to better consumer interest and effectiveness of decisions. The more the perceived personalization, the more the felt satisfaction with the recommendations and the more the participants perceived the need to act on them. Figure 2 shows the categorization of total consumer engagement in low, medium, and high levels of personalization experiences. The x-axis will be the degree of personalization (Low, Medium, High), whereas the y-axis will be the percentage of respondents within each category of engagements. With high personalization, it is clear that the most engaged users are those who were subjected to the high level of personalization, which is an indicator of the success of AI-based recommendations systems in drawing consumer interest.

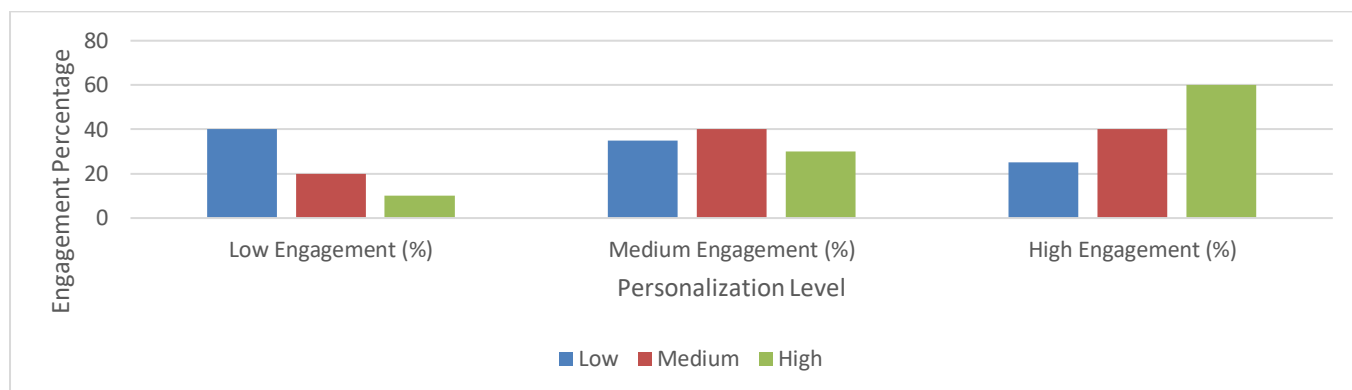


FIG. 2: OVERALL CONSUMER ENGAGEMENT ACROSS PERSONALIZATION LEVELS

In addition, issues on privacy surfaced as a major moderating factor. Even with high levels of personalization, participants who indicated high concern with the use of their personal data demonstrated a lower trust of the platform and were less inclined to recommend when asked to. This tendency highlights the privacy-personalization trade-off, according to which, personalization, in addition to improving the engagement, privacy concerns can suppress the decisions and diminish the overall trust. Figure 3 illustrates the distribution of the purchase intention amongst the low, medium and high privacy concern participants. The x-axis is used to represent the level of privacy concern whereas the y-axis is used to represent the average purchase intention scores. As demonstrated in the figure, the purchase intention decreases significantly as the privacy concerns rise, and it is important to consider ethical data practices in AI-driven systems.

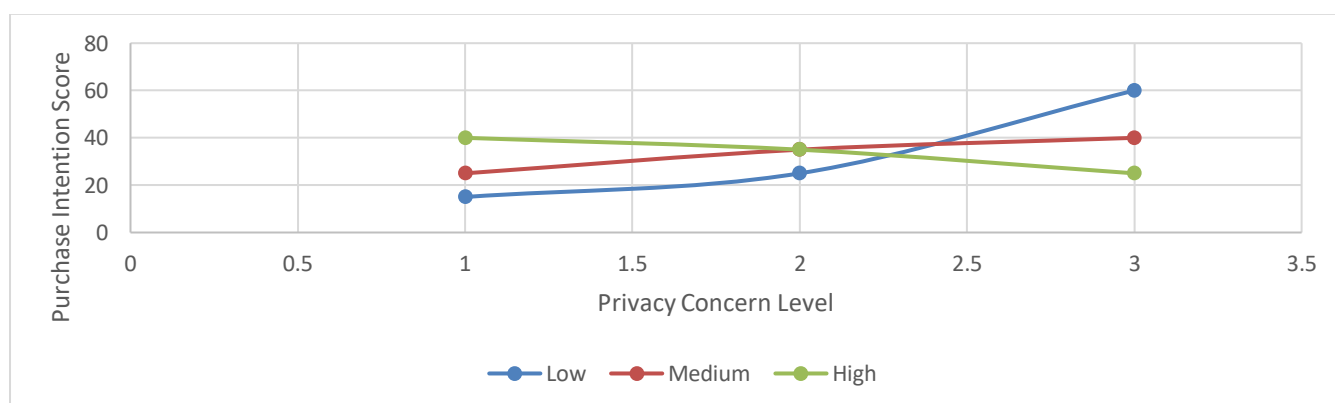


FIG. 3: PURCHASE INTENTION DISTRIBUTION ACROSS PRIVACY CONCERN LEVELS

Figure 4 shows the combined impact of personalization and privacy on the effectiveness of consumer decision making. This number demonstrates the scores of efficiency of decision making of the participants divided by low, medium, and high personalization level and separated by the degree of privacy concerns. The x-axis will be used to indicate the levels of personalization, whereas the y-axis will indicate the levels of decision-making efficiency. The figure shows that there is optimal engagement when the personalization is high whereas privacy concerns are low to high. Those with high personalization and low privacy concerns had the quickest and least apprehensive decision-making time and indicated that the system designers need to pursue a balance between customized recommendations and open-access privacy policies.

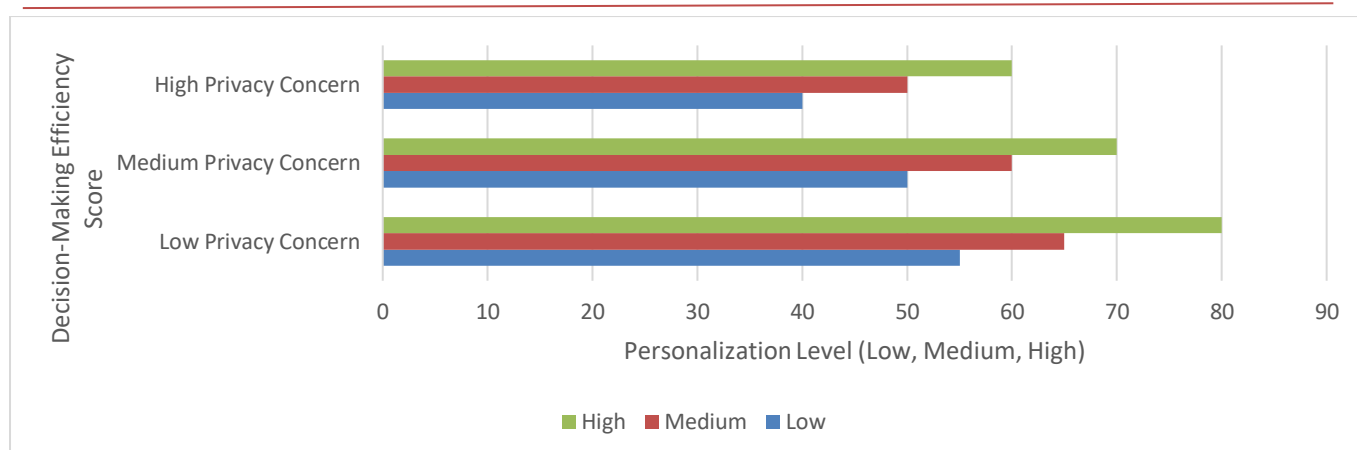


FIG. 4: DECISION-MAKING EFFICIENCY ACROSS PERSONALIZATION AND PRIVACY LEVELS

Table 1 contains a comparative study of trust scores in respondents who have low, medium and high privacy concerns. It is apparent in the table that trust is less when privacy apprehension is high and it has a moderating role in engagement and acceptance of recommendation. The table also provides a clue on the interaction of trust and perceived personalization whereby even the participants who were exposed to moderate personalization exhibit less trust when the privacy concerns are high.

TABLE 1: TRUST SCORES COMPARISON ACROSS PRIVACY CONCERN LEVELS

Privacy Concern Level	Average Trust Score	Standard Deviation
Low	8.5	0.7
Medium	6.8	0.9
High	5.2	1.1

Table 2 will use comparison of purchase intention by low, medium, and high personalization and indicate that highly personalized recommendations have a significant effect on the likelihood of purchase, but the performance is limited when the user indicates a strong privacy concern. The tables in totality support the necessity of incorporating privacy-consciousness in the recommendation engine to achieve engagement and trust.

TABLE 2: PURCHASE INTENTION COMPARISON ACROSS PERSONALIZATION LEVELS

Personalization Level	Average Purchase Intention	Standard Deviation
Low	5.8	1.0
Medium	7.2	0.8
High	8.6	0.6

The analysis of these results implies that although the AI-based recommendation system has proven to be effective in shaping the consumer behavior, the advantages of individualization largely depend on the perceptions of the users about their privacy protection. Satisfaction and efficiency in the decision-making process can be increased when platforms offer very relevant recommendations, which can be canceled by not considering privacy issues adequately. Its findings reiterate the values of transparency, control of user information and ethical AI in improving consumer acceptance. Companies that maintain a reasonable balance between personalization and privacy will probably have a higher engagement, trust, and purchase intention [2].

Moreover, the outcomes also reflect on the practical implications to the digital marketer and platform designers. Cross-section can be used to design targeted strategies by segmenting consumers based on the personalization preference and privacy issue. Specifically, users who hold privacy in high regard may find systems of recommendation that expressly declare policy of data use or give them an option of the extent to which they would like to be personalized more comforting. Continuing on the same topic, more advanced recommendation algorithms can be applied to users with low privacy interests and high activity rate in order to maximize the conversion rates to high degrees. It is a commercial plan, which can relocate the business and fulfilment of consumers due to the harmonization of the two elements of personalization and privacy [1].

Overall, the results reveal that AI-assisted recommendation systems are key determinants of consumer behavior, in the sense, that, personalization enhances the effectiveness and interest in the decision-making process, and

privacy concerns play a major moderating role. This research study tries to unravel the sophisticated interaction between these variables by combining visual analysis using figures and tabular comparison to give practical insights on how to create AI-driven systems that are effective, consumer-friendly, and ethically responsible.

Conclusion

This paper establishes that the recommendation systems that are driven by AI have a significant impact on the consumer behavior, increasing the engagement, trust, and intention to purchase due to the personalized experience. Personalization leads to higher efficiency of decision-making, lesser cognitive load, and more pleasant attitudes towards digital platforms. Nonetheless, the issue of privacy serves as a strong moderating force and may lead to lowered user trust and acceptance, even though the recommendations are very relevant.

Practical weaknesses involve the use of self-reported survey data, which is subject to response bias, and the study paper is focused on a particular geographic and demographic sample, and this restricts the ability to generalize. Moreover, it might be difficult to ensure long-term relevance of findings due to the high level of evolution of AI algorithms.

Some potential future directions include the identification of cross-cultural variations in sensitivity to privacy and personalization acceptance, the explanation of AI implementation to improve the level of transparency and trust, and longitudinal research to evaluate the effect of repeated exposure to the recommendation system and the eventual consumer behavior. In addition, a study of regulatory compliance tactics and its effect on consumer's perceptions may offer practical solutions to the ethical use of AI in digital marketing.

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